

What is claimed is:

1. An X-ray diagnostic system, comprising:
  - a CCD camera;
  - a device for generating external trigger pulses; and
  - a system control, formed in such a way that, in the absence of X-radiation, a readout of the CCD camera without a useful signal takes place at regular time intervals, wherein the system control is further formed in such a way that, when an external trigger pulse occurs at a point in time at which no readout of the CCD camera is taking place, a read out without a useful signal is initially triggered and then an exposure of the CCD camera takes place, and wherein, when an external trigger pulse occurs at a point in time at which a readout of the CCD camera takes place, a readout without a useful signal is suppressed before an exposure of the CCD camera.
2. The X-ray diagnostic system as claimed in claim 1, wherein, when an external trigger pulse occurs at a point in time at which a readout of the CCD camera takes place, the X-ray diagnostic system is immediately triggered for the emission of X-radiation and the useful signal is subsequently read out.
3. The X-ray diagnostic system as claimed in claim 1, wherein, when an external trigger pulse occurs at a point in time at which no readout of the CCD camera takes place, a readout without a useful signal is initially carried out and then the X-ray diagnostic system is triggered for the emission of X-radiation.

4. The X-ray diagnostic system as claimed in claim 1, wherein the device for generating external trigger pulses is an ECG electrode.
5. The X-ray diagnostic system as claimed in claim 1, wherein the device for generating external trigger pulses is a phase-angle sensor.
6. The X-ray diagnostic system as claimed in claim 2, wherein, when an external trigger pulse occurs at a point in time at which no readout of the CCD camera takes place, a readout without a useful signal is initially carried out and then, the X-ray diagnostic system is triggered for the emission of X-radiation.
7. The X-ray diagnostic system as claimed in claim 2, wherein the device for generating external trigger pulses is an ECG electrode.
8. The X-ray diagnostic system as claimed in claim 3, wherein the device for generating external trigger pulses is an ECG electrode.
9. The X-ray diagnostic system as claimed in claim 6, wherein the device for generating external trigger pulses is an ECG electrode.
10. The X-ray diagnostic system as claimed in claim 2, wherein the device for generating external trigger pulses is a phase-angle sensor.
11. The X-ray diagnostic system as claimed in claim 3, wherein the device for generating external trigger pulses is a phase-angle sensor.

12. The X-ray diagnostic system as claimed in claim 4, wherein the device for generating external trigger pulses is a phase-angle sensor.
13. The X-ray diagnostic system as claimed in claim 6, wherein the device for generating external trigger pulses is a phase-angle sensor.
14. The X-ray diagnostic system as claimed in claim 7, wherein the device for generating external trigger pulses is a phase-angle sensor.
15. The X-ray diagnostic system as claimed in claim 8, wherein the device for generating external trigger pulses is a phase-angle sensor.
16. The X-ray diagnostic system as claimed in claim 9, wherein the device for generating external trigger pulses is a phase-angle sensor.
17. An X-ray diagnostic system, comprising:
  - a CCD camera;
  - means for generating an external trigger pulse;
  - and
  - means for, when an external trigger pulse is generated when no readout of the CCD camera is taking place, providing a readout without a useful signal before an exposure of the CCD camera, and for, when an external trigger pulse is generated when a readout of the CCD camera is taking place, suppressing a readout without a useful signal before an exposure of the CCD camera.
18. The X-ray diagnostic system as claimed in claim 17, wherein the means for providing is formed in such a way that, in the absence of X-radiation, a

readout of the CCD camera without a useful signal takes place at regular time intervals.

19. The X-ray diagnostic system as claimed in claim 17, wherein, when an external trigger pulse occurs at a point in time at which a readout of the CCD camera takes place, the X-ray diagnostic system is immediately triggered for the emission of X-radiation and the useful signal is subsequently read out.
20. The X-ray diagnostic system as claimed in claim 17, wherein, when an external trigger pulse occurs at a point in time at which no readout of the CCD camera takes place, a readout without a useful signal is initially carried out and then the X-ray diagnostic system is triggered for the emission of X-radiation.